Lesson 10.1 Practice: The Idea of a Confidence Interval

School Launch · Statistics · Unit 10: Confidence Intervals · Worksheet A

Calculator / tables

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. A 95% confidence interval for a proportion is 0.68 ± 0.037. Give the interval and the margin of error. Interpret it. EASY

2. A 95% confidence interval for a proportion is 0.3 ± 0.022. Give the interval and the margin of error. Interpret it. EASY

3. A 95% confidence interval for a proportion is 0.55 ± 0.049. Give the interval and the margin of error. Interpret it. EASY

4. A 95% confidence interval for a proportion is 0.68 ± 0.026. Give the interval and the margin of error. Interpret it. MEDIUM

5. A 95% confidence interval for a proportion is 0.62 ± 0.042. Give the interval and the margin of error. Interpret it. MEDIUM

6. A 95% confidence interval for a proportion is 0.39 ± 0.033. Give the interval and the margin of error. Interpret it. MEDIUM

7. A 95% confidence interval for a proportion is 0.65 ± 0.032. Give the interval and the margin of error. Interpret it. MEDIUM

8. A 95% confidence interval for a proportion is 0.69 ± 0.03. Give the interval and the margin of error. Interpret it. HARD

9. A 95% confidence interval for a proportion is 0.27 ± 0.043. Give the interval and the margin of error. Interpret it. HARD

10. A 95% confidence interval for a proportion is 0.58 ± 0.023. Give the interval and the margin of error. Interpret it. HARD